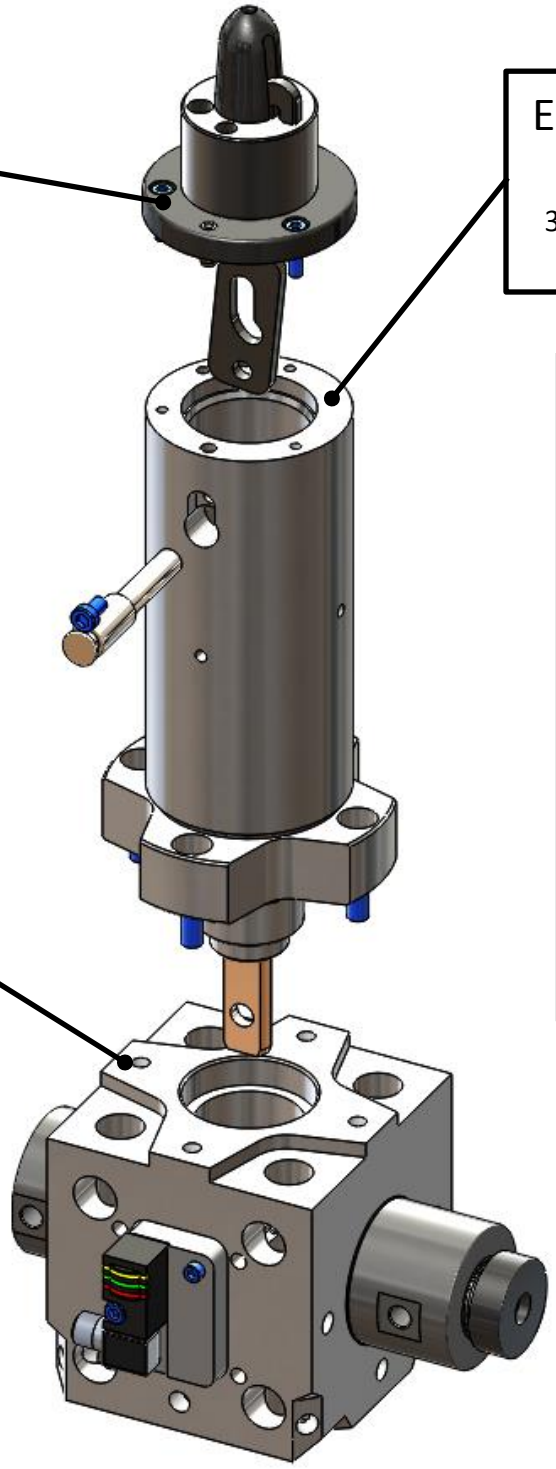
XPC Pin Clamp User's Guide

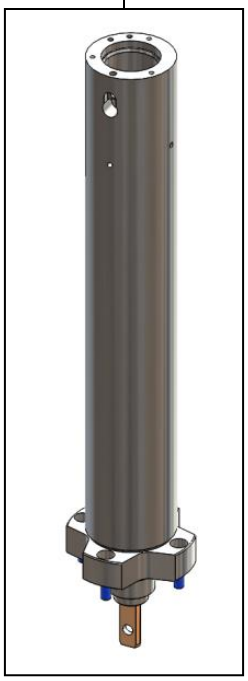
Rev_0.0

XPC Clamp Components

Pin, Finger and Donut
25mm and 40mm pin
Standard Sizes

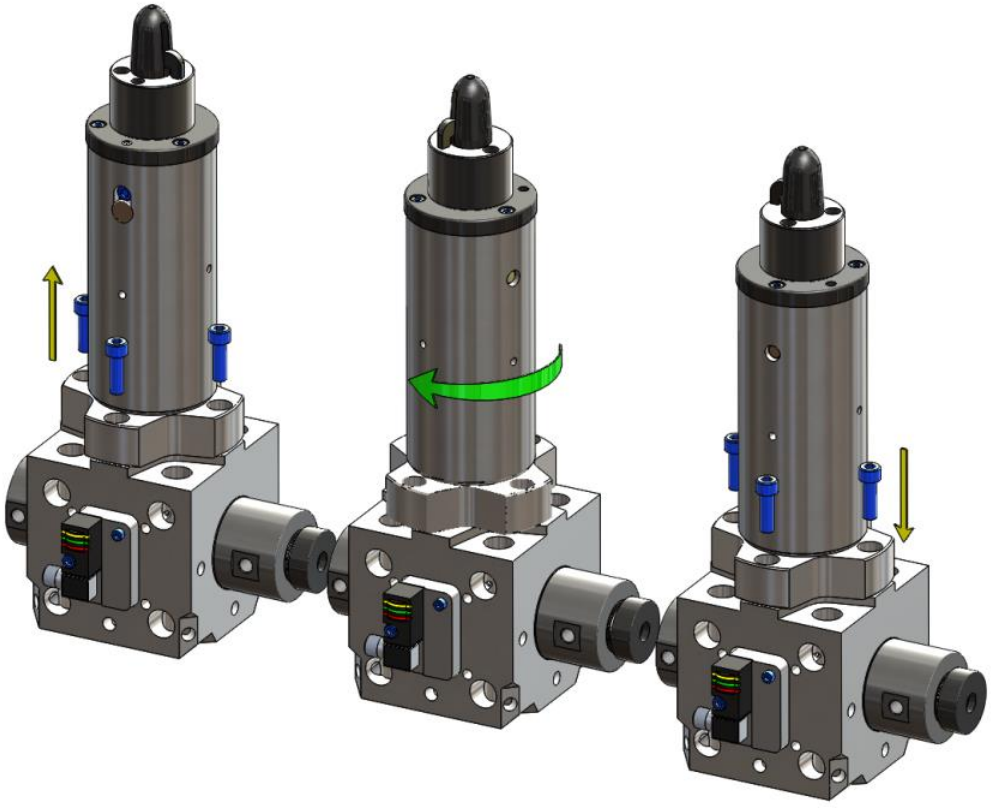


Extension Sub-Assembly
350mm and 650mm
Standard Sizes



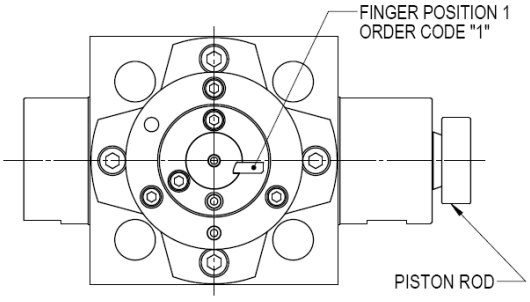
Power Cylinder Sub-Assembly

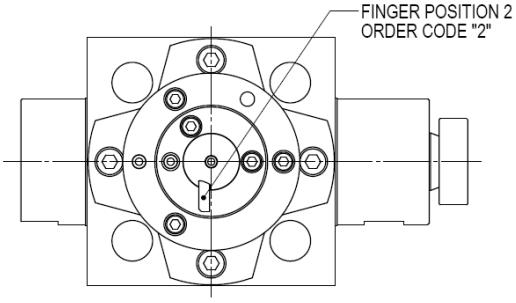
Reposition Finger on Clamp

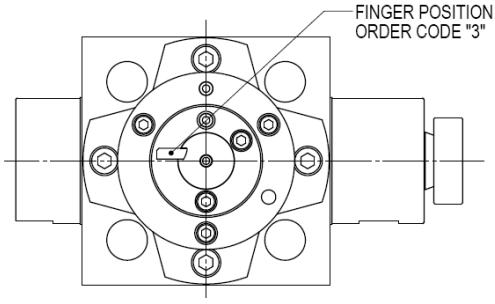


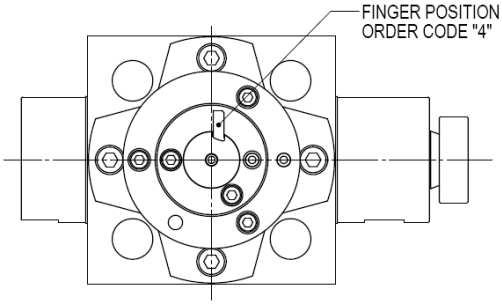
STEP 1
Remove (4) screws from Extension Assembly
STEP 2
Rotate Extension Assembly to desired position in 90 degree increments.
STEP 3
Reinstall (4) screws.

No other disassembly is required.





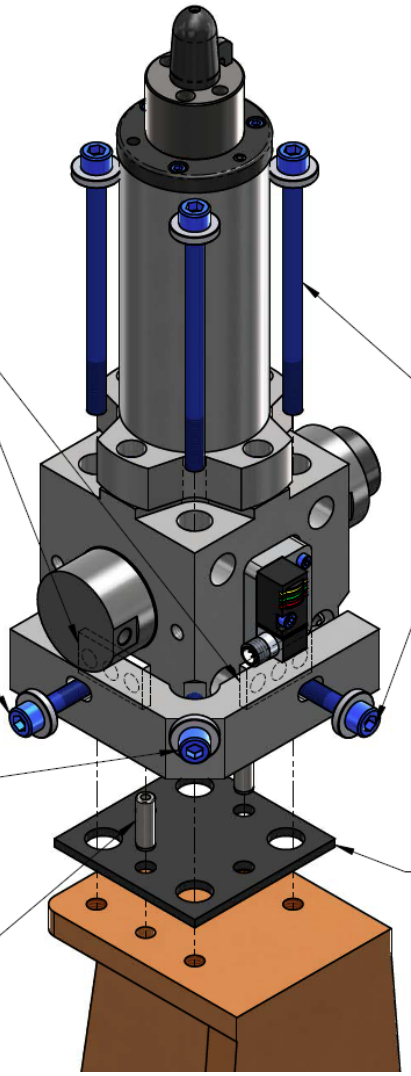




Adjustable Mount Instructions

XPC LOCKING PIN CLAMP ADJUSTABLE MOUNT TORQUE SEQUENCE INSTRUCTIONS

BTM® CORPORATION



STEP 1
ASSEMBLE SPACERS IN BETWEEN BLADE AND MOUNT.

FACTORY INSTALLED SPACER THICKNESS = 5mm (NAAMS ASP350)

ALLOWABLE THICKNESS RANGE = 2.5mm MIN - 7.5mm MAX

LOOSELY ASSEMBLE (2) M10x50 S.H.C.S. SIDE DRAW BOLTS AND HARDENED WASHERS INTO BLADE TO LINE UP SPACER. DO NOT TORQUE UNTIL STEP 3

STEP 2
ASSEMBLE M10x50 S.H.C.S. CORNER DRAW BOLT AND HARDENED WASHER TORQUE TO 34 N-m

THE BLADE SHOULD BE SNUG AGAINST BOTH SPACERS

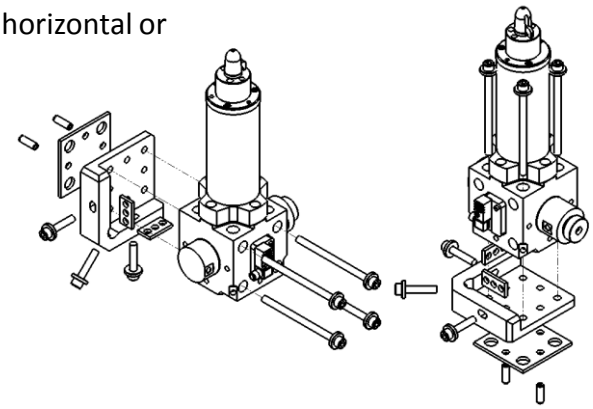
2X M10x30 DOWEL

STEP 4
ASSEMBLE (4) M10x150 S.H.C.S. MOUNT BOLTS AND HARDENED WASHERS TORQUE TO 72 N-m

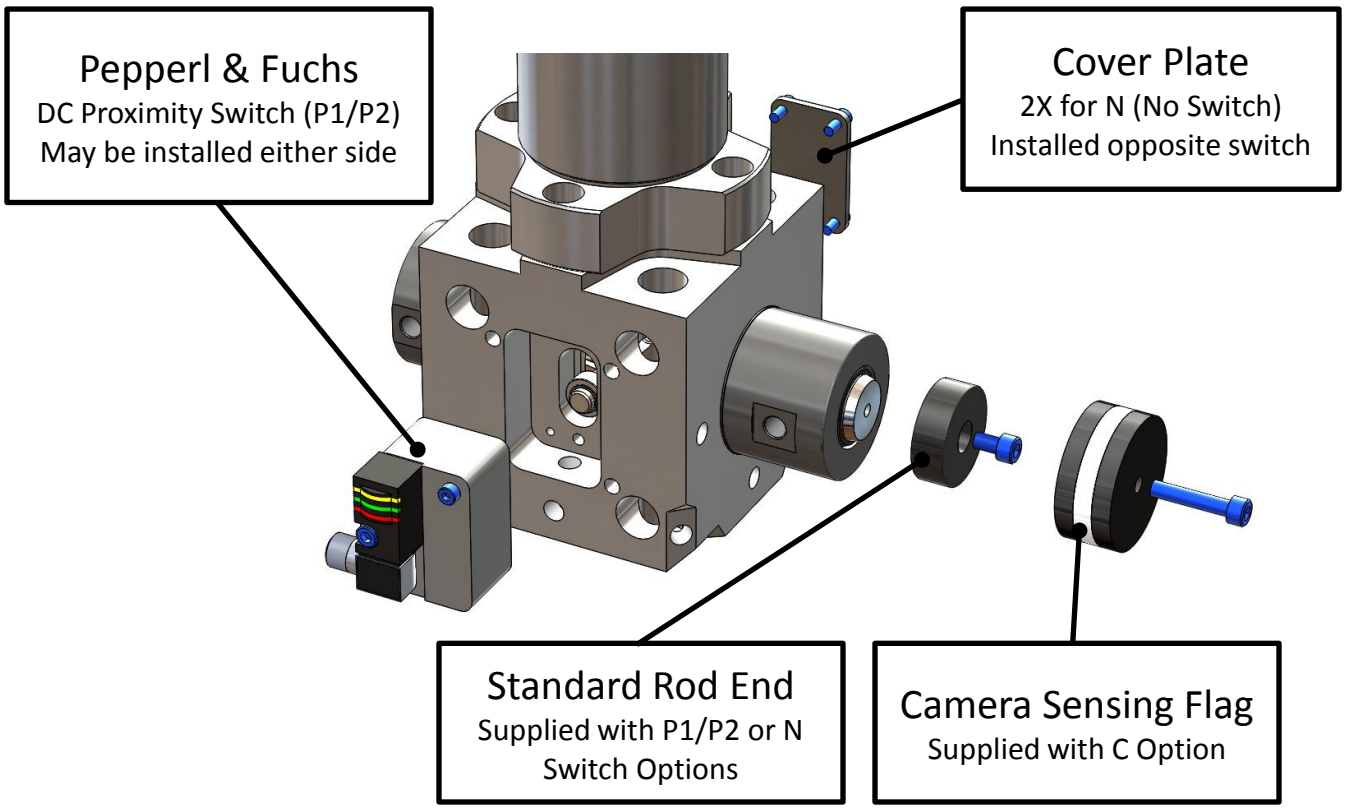
STEP 3
TORQUE TO 72 N-m THE (2) M10x50 S.H.C.S. SIDE DRAW BOLTS AND HARDENED WASHERS LOOSELY ASSEMBLED IN STEP 1

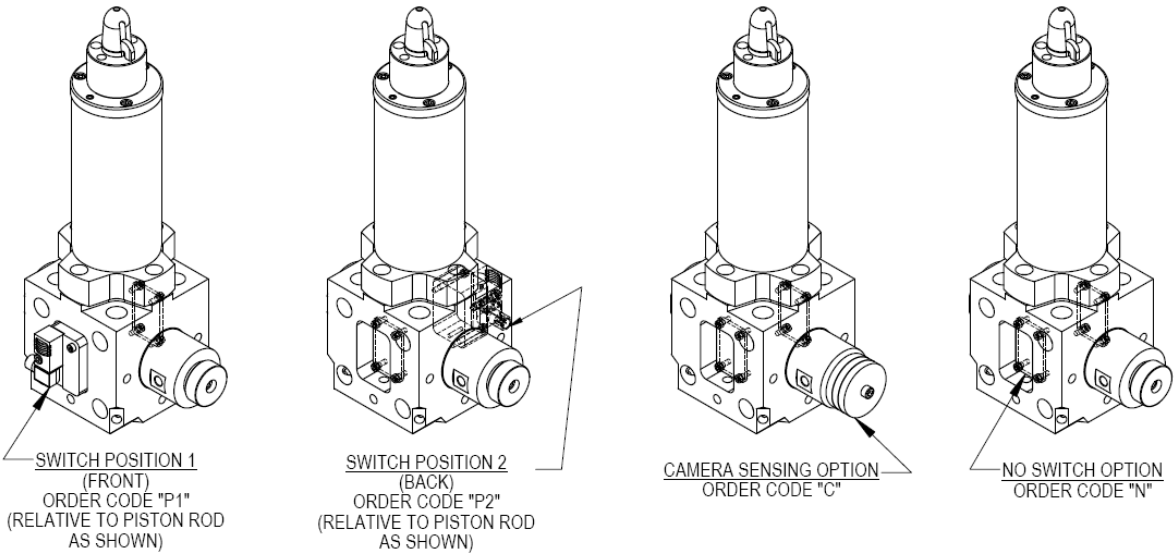
NAAMS SPACER ACS650

May be assembled in horizontal or vertical orientations



Sensing Options





ECN No.	REV.	DATE	CHANGE	BY
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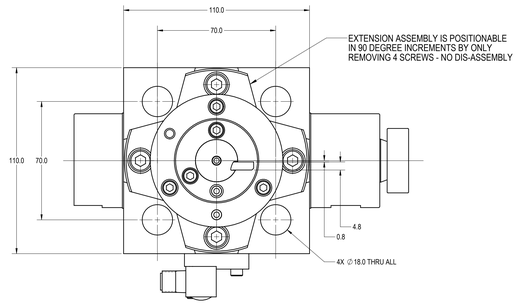
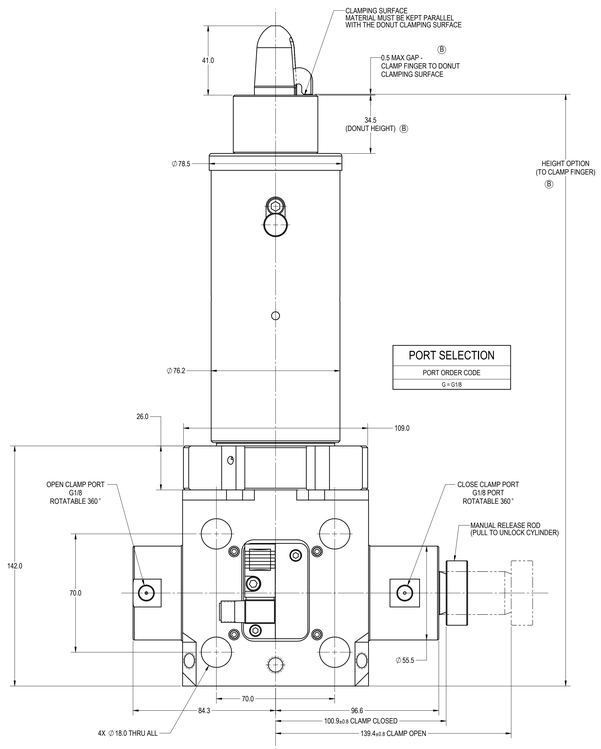
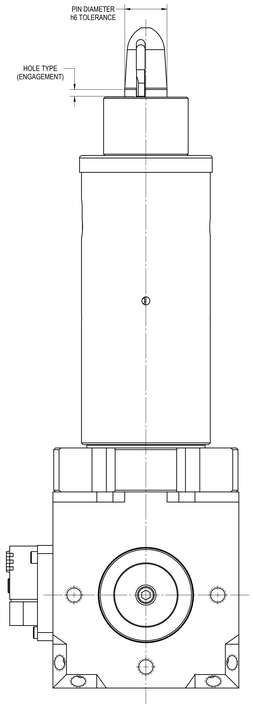
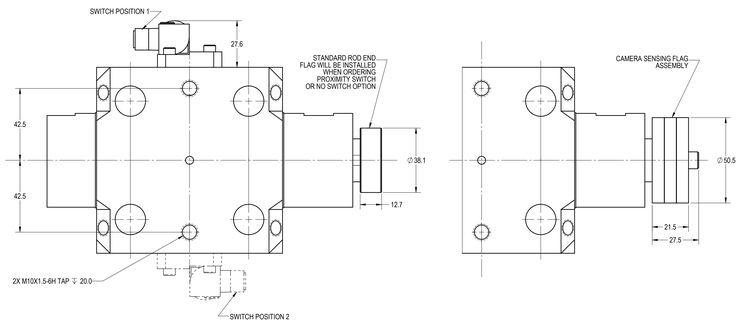
----	B	2014-03-07	REVISED AND CLARIFIED HEIGHT OPTION DIMENSIONS	ATS





PORT SELECTION
PORT ORDER CODE
G = G1/8





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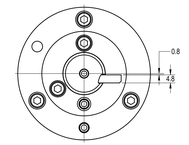
PIN SELECTION		
STANDARD PIN DIAMETERS	HOLE TYPE (ENGAGEMENT)	PIN COATING
24.8	S, F	B = BLACK OXIDE
25.0	S, F	
39.8	S, F	
40.0	S, F	

CONTACT BTM FOR NON-STANDARD OPTIONS

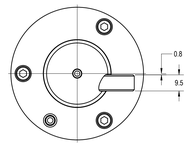
STANDARD AVAILABLE PIN DIAMETERS
ALL PINS h6 TOLERANCE

BTM PIN CLAMPS CAN BE ORDERED WITH CUSTOM PIN CONFIGURATIONS

∅24.8
∅25.0

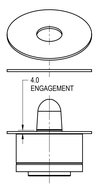


∅39.8
∅40.0

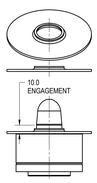


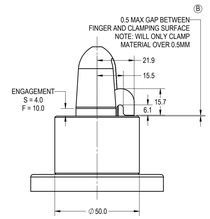
HOLE TYPES

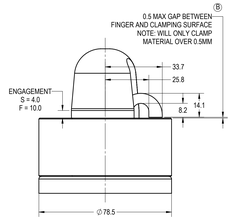
STANDARD HOLE ORDER CODE "S"



FLANGED HOLE ORDER CODE "F"







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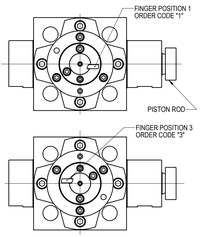
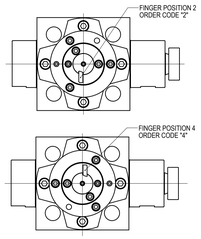
FINGER POSITION	
ORDER CODE	ORIENTATION
1	AS SHOWN BELOW
2	
3	
4	





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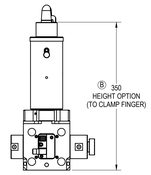
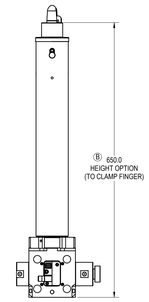
HEIGHT	
Ⓑ FROM BASE TO CLAMP FINGER - AS SHOWN BELOW	
ORDER CODE	DIMENSION
350	350mm
650	650mm





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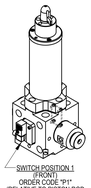
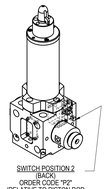
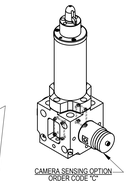
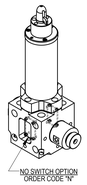
SENSING		
DESCRIPTION	ORDER CODE	
	SWITCH POS 1	SWITCH POS 2
PEPPERL & FUCHS DC WORLD SWITCH	P1	P2
CAMERA SENSING - INCLUDES COVERS & SCRS.	C	
NO SWITCH OPTION - INCLUDES COVERS & SCRS.	N	
OTHER SWITCH BRANDS ARE AVAILABLE - BUT NOT STOCKED. CONTACT BTM FOR DETAILS		









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HOW TO ORDER XPC CLAMPS

XPC - G 25.0 F B 350 - 1 - P1 - XXXXXXXXX
A B C D E F G H

CLAMP SERIES
XPC

A PORT:
G = G1/8

B PIN DIAMETER (h6 TOLERANCE):
25.0
24.8
40.0
39.8

C HOLE TYPE ENGAGEMENT:
S = STANDARD HOLE
F = FLANGED HOLE

D PIN COATING:
B = BLACK OXIDE

E HEIGHT OPTION:
350
650

F FINGER POSITION:
1
2
3
4

G SENSING OPTIONS:
PEPPERL & FUCHS DC PROXIMITY SWITCH:
P1 = SWITCH POSITON 1
P2 = SWITCH POSITION 2

CAMERA SENSING:
C

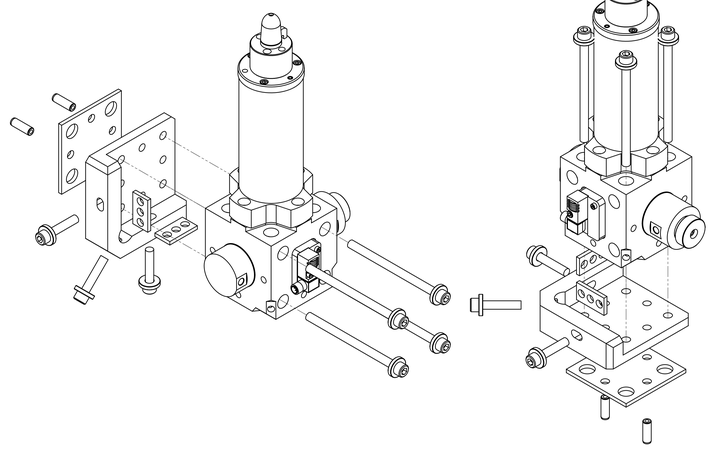
NO SWITCH:
N

H SPECIAL OPTION
BTM Pin Clamps can be ordered with custom designed (non-standard) pins, donuts, and/or fingers. In such instances, a SPECIAL OPTION number must be referenced when ordering a non-standard pin clamp.

OPTIONAL FITTING SPACER MOUNT

ALLOWS MULTIPLE MOUNTING POSITIONS

SEE DRAWING TPD281300M FOR MORE INFORMATION



-- SPECIFICATIONS --

BORE SIZE: 38.1 [1.50] DIA. - 1140mm² [1.77 in²]

CYLINDER STROKE: 38.5mm [1.52in.]

WEIGHT (APPROX)
350 HT = 7.46 kg [16.5 lbs]
650 HT = 10.89 kg [23.6 lbs]

FINGER TRAVEL: 15mm [.59 in.]
5mm [.20 in.] ROTATIONAL
10mm [.39 in.] STRAIGHT LINE PULL DOWN STROKE
2.5mm [.10] LOCKING RANGE (FROM CLAMPING SURFACE)

CLAMPING FORCE: 890 N -1334 N [200-300 lbs] @ 5.5 BAR [80 PSI]

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DO NOT SCALE DRAWING

UNLESS OTHER TOLERANCES ARE SPECIFIED ON THIS DRAWING OR ON THE PART, THE FOLLOWING APPLY:
STANDARD TOLERANCES: FRACT ±1/16, .X ±0.06, .XX ±0.03, .XXX ±0.005, ANGLES ±1 PARTS DEBURRED
GEOMETRIC TOLERANCES PER ASME Y14.5M: FLATNESS, PARALLELISM, PERPENDICULARITY, CIRCULARITY, CONCENTRICITY OR TRUE POSITION

SHT. SIZE: E5

BTM CORPORATION
MARYSVILLE, MICHIGAN U.S.A.
www.btmcorp.com

CUSTOMER: BTM STANDARD
TITLE: XPC LOCKING PIN CLAMP CUSTOMER TEMPLATE
DESIGNED BY: A. SANDERS
DETAILED BY & DATE: A. SANDERS 2013-11-20
CHECKED BY & DATE: ----- -----
SCALE: 1:1
SHEET: 1 / 1
BTM No.: TPD275900A350
OPP DETAIL No.: ----
REFERENCE No.: PD275900A350
JOB NUMBER:

DATE PRINTED: Wednesday, September 10, 2014 THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED!

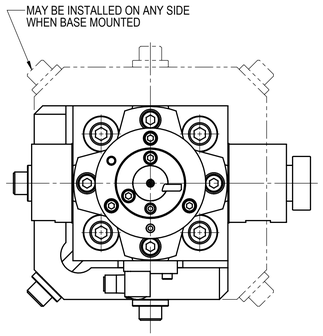
Titleblock Revised 2012-06-21

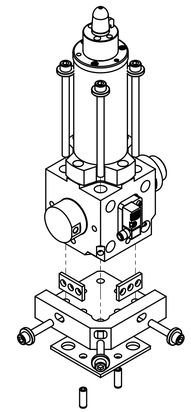
ECN No.	REV.	DATE	CHANGE	BY
EC101362	A	2014-01-24	K7 DOWEL FIT WAS H6	ATS

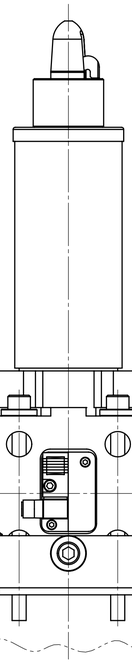
BASE MOUNTING

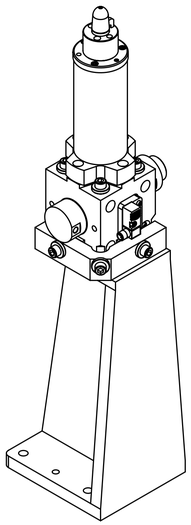
NOTES FOR BASE MOUNTING:

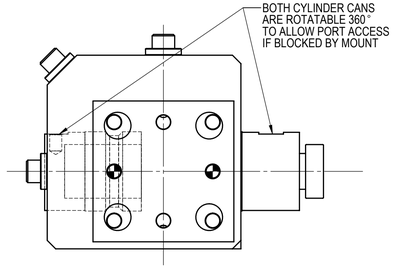
Three way shimming simply by bolting directly to any of available mounting surfaces. Standard 70 x 70mm bolt pattern, (4) M10x1.5 tapped holes and (2) M10 dowel holes











SIDE MOUNTING

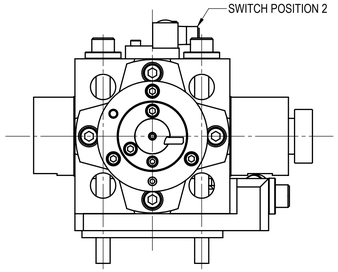
NOTES FOR SIDE MOUNTING:

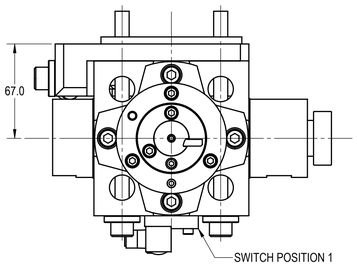
Three way shimming simply by bolting directly to any of available mounting surfaces. Standard 70 x 70mm bolt pattern, (4) M10x1.5 tapped holes and (2) M10 dowel holes.

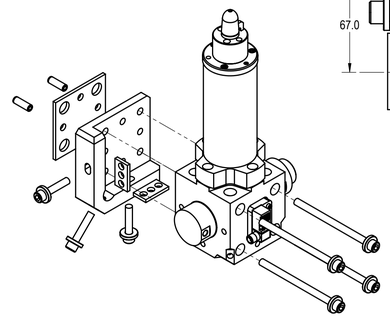
Mount will be opposite proximity switch.

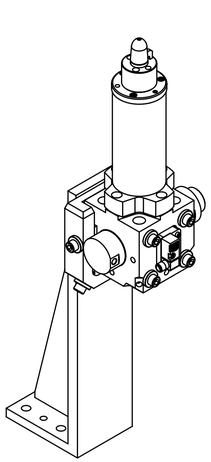
When no switch (NS) or camera sensing (CS) is chosen, either side of clamp is available for mounting.

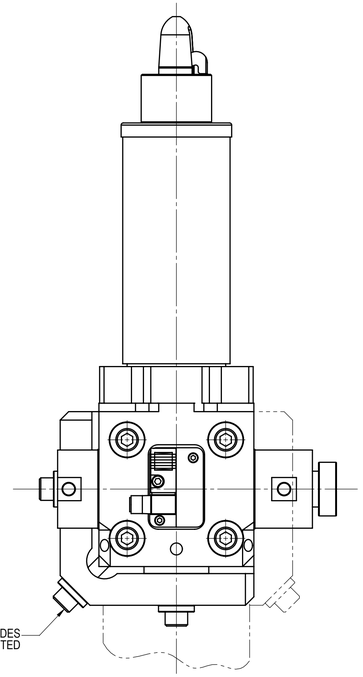
Side Mount is NOT available on sides cylinder can is present.



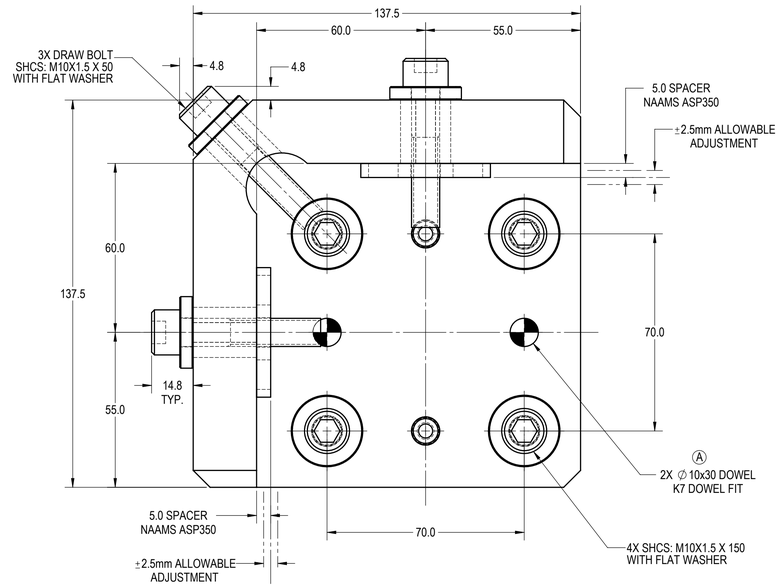


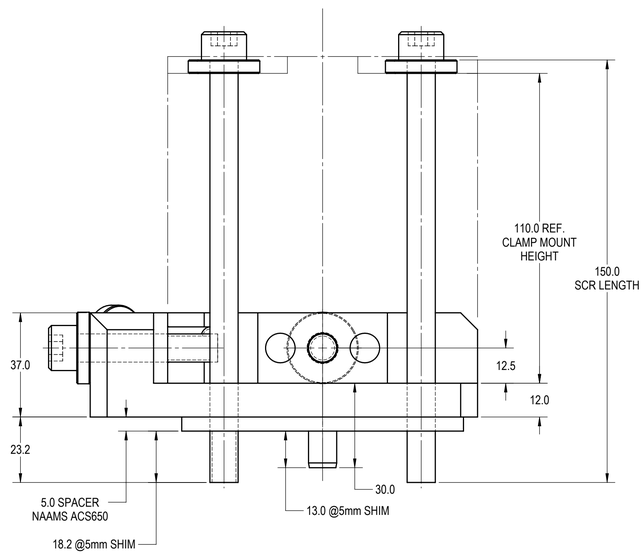






DIMENSIONS





XPC ADJUSTABLE MOUNT ORDER INFORMATION	
DESCRIPTION	BTM ASS'Y NUMBER
XPC: ADJ MOUNT ASSY- 5MM FITTING SPACER	PD281300M

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DO NOT SCALE DRAWING

REMOVE FIRST THREAD FROM ALL TAPPED HOLES.
BREAK ALL SHARP CORNERS WITH .020 TO .035 FILLET RADIUS.
REMOVE ALL BURRS & STAMP OR MARK ALL WITH BTM NUMBER.

STANDARD TOLERANCES
ANGLES ± ±0° 30'
FRAC. ± ±.030
.0 ± ±.06
.00 ± ±.010
.000 ± ±.005
.0000 ± ±.0005
UNLESS OTHERWISE SPECIFIED

GEOMETRIC TOLERANCES
FLATNESS
STRAIGHTNESS
RUNOUT (CIRCULAR)
PERPENDICULARITY
PARALLELISM
CONCENTRICITY
TRUE POSITION

SHT. SIZE: D

SCALE: 1:1 | SHEET: 1 / 1

JOB NUMBER: -----

BTM CORPORATION
MARYSVILLE, MICHIGAN
U.S.A.
www.btmcorp.com

CUSTOMER	BTM STANDARD		
TITLE	XPC: ADJ MOUNT ASSY- 5MM FITTING SPACER -----		
DESIGNED BY	DETAILED BY & DATE	CHECKED BY & DATE	
A. SANDERS	A. SANDERS 2013-09-25	----- -----	
BTM No.	OPP DETAIL No.		
TPD281300M	REFERENCE No. PD275800M		

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DATE PRINTED: Thursday, September 11, 2014

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